TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-2021-09-08-08** **Date: 19-12-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division , BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division , BBMP, Bangalore.
Project Name	:	Providing benches and drilling of borewells at burial ground in ward no-04 of satellite town sub division.
Agency	:	Sri.G Venkategowda s/o Govindaraju, B3-11 2nd floor SFS 12th B main road Omega Hospital Yelahanka new town Bangalore- 560064.
Customer Reference	:	EE(YNK.D)E.PMT.06/W.O/156/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-12-20
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	17-12-20
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	310	310	2.8	97.2	95-100
22.4	2248	2558	23.3	76.7	60-80
11.2	2176	4734	43.0	57.0	40-60
4.75	2251	6985	63.5	36.5	25-40
2.36	1619	8604	78.2	21.8	15-30
0.6	623	9227	83.9	16.1	8-22
0.075	1352	10579	96.2	3.8	0-5

* The results obtained are satisfactory as per standard requirements.

Note:-

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-2021-09-08-08** **Date: 19-12-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division , BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division , BBMP, Bangalore.
Project Name	:	Providing benches and drilling of borewells at burial ground in ward no-04 of satellite town sub division.
Agency	:	Sri.G Venkategowda s/o Govindaraju, B3-11 2nd floor SFS 12th B main road Omega Hospital Yelahanka new town Bangalore- 560064.
Customer Reference	:	EE(YNK.D)E.PMT.06/W.O/156/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-12-20
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	17-12-20

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-2021-09-08-08** **Date: 19-12-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division , BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division , BBMP, Bangalore.
Project Name	:	Providing benches and drilling of borewells at burial ground in ward no-04 of satellite town sub division.
Agency	:	Sri.G Venkategowda s/o Govindaraju, B3-11 2nd floor SFS 12th B main road Omega Hospital Yelahanka new town Bangalore-560064.
Customer Reference	:	EE(YNK.D)E.PMT.06/W.O/156/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-12-20
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	17-12-20

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

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TEST RESULTES FOR MS BLOCK PIPE

Lab ID	:	**CP-2021-09-08-08** **Date: 26-12-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division , BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division , BBMP, Bangalore.
Agency	:	Providing benches and drilling of borewells at burial ground in ward no-04 of satellite town sub division.
Project Name	:	Sri.G Venkategowda s/o Govindaraju, B3-11 2nd floor SFS 12th B main road Omega Hospital Yelahanka new town Bangalore- 560064.
Customer's Reference	:	EE(YNK.D)E.PMT.06/W.O/156/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-12-20
Type of Sample	:	M.S Block Pipe
Reference to BIS codes	:	IS:1608-2005(RA 2011), IS 1599-2012.
Date of test	:	23-12-20

TESTS RESULTS FOR MS BLOCK PIPE 38MM DIA, 14 GAUGE

Sl. No	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Yeild Stress (N/mm2)	299	250N/mm^2	Satisfactory
2	Tensile Strength (N/mm2)	509	410N/mm^2	Satisfactory
3	Elongation Percentage (%)	24	Min 23%	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS FOR CHAIN LINK FENCING

Lab ID	:	**CP-2021-09-08-08** **Date: 26-12-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division , BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division , BBMP, Bangalore.
Project Name	:	Providing benches and drilling of borewells at burial ground in ward no-04 of satellite town sub division.
Agency	:	Sri.G Venkategowda s/o Govindaraju, B3-11 2nd floor SFS 12th B main road Omega Hospital Yelahanka new town Bangalore- 560064.
Customer's Reference	:	EE(YNK.D)E.PMT.06/W.O/156/2020-21
Sourse of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-12-20
Type of Sample	:	Chain Link Fencing
Reference to BIS codes	:	IS 2062:2011
Date of test	:	23-12-20

TESTS RESULT FOR WIRE MESH

SL.NO	Description	Result
1	Average Thickness in mm	4.04
2	Dia of linewire in mm	3.14
3	Mesh size in mm	50.01
4	Nominaldia of meshwire in mm	2.52
5	Bend Test	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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CEMENT CONCRETE PRECAST CONCRETE BLOCKS FOR PAVING

Date: 04-01-21

Lab ID	:	CP-2021-09-08-08
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division , BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division , BBMP, Bangalore.
Project Name	:	Providing benches and drilling of borewells at burial ground in ward no-04 of satellite town sub division.
Agency	:	Sri.G Venkategowda s/o Govindaraju, B3-11 2nd floor SFS 12th B main road Omega Hospital Yelahanka new town Bangalore- 560064.
Customer Reference	:	EE(YNK.D)E.PMT.06/W.O/156/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-12-20
Sample Type/ Size	:	Precast concrete blocks for paving
Reference to BIS codes	:	IS 15658:2006
Date of test	:	30-12-20

1.Compressive Strength

Sl.No.	Dimension (mm)			Compressive Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	197.22	159.88	60.53	32.5	33.1
2	198.48	159.64	60.21	33.8	
3	199.54	159.54	60.23	32.5	
4	197.68	159.22	60.25	33.5	
5	198.11	159.87	60.45	32.8	
6	198.18	160.02	60.86	33.4	
7	198.45	158.99	60.48	33.2	
8	197.22	159.22	60.79	32.8	

2. Water Absorption

Sl.No.	Wet Weight	Dry weight	Thickness	Water Absorption (%)	Average (%)
1	4.987	4.828	60.79	3.29	3.64
2	4.898	4.721	60.45	3.75	
3	4.988	4.802	60.25	3.87	

* The results obtained are satisfactory as per standard requirements.

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CEMENT CONCRETE FLOORING TILES

Lab ID	:	**CP-2021-09-08-08** **Date: 25-11-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division , BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division , BBMP, Bangalore.
Project Name	:	Providing benches and drilling of borewells at burial ground in ward no-04 of satellite town sub division.
Agency	:	Sri.G Venkategowda s/o Govindaraju, B3-11 2nd floor SFS 12th B main road Omega Hospital Yelahanka new town Bangalore- 560064.
Customer Reference	:	EE(YNK.D)E.PMT.06/W.O/156/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-11-20
Sample Type	:	Pre-Polished Designer Cement Concrete Tiles
Reference to BIS codes	:	IS 1237:2012
Date of test	:	20-11-20

1. Water Absorption

Sl.No.	Measured Dimension (mm)			Water Absorption (%)	Average (%)	Requirement as per IS:1237-2012
	L	B	T			
1	400	399	25.09	2.530	2.21	The average percentage of water absorption shall not exceed 10
2	401	401	25.05	1.920		
3	400	401	25.11	2.170		
4	400	399	25.06	2.060		
5	399	400	25.17	1.800		
6	400	400	25.13	2.760		

2.Wet Transverse Strength

Sl.No.	Measured Dimension (mm)			Wet Transverse Strength (N/mm^2)	Average (N/mm^2)	Requirement as per IS:1237-2012
	L	B	T			
1	401	401	25.02	7.83	7.8	The average wet transverse strength shall not be less than $3N/mm^2$.
2	401	401	25.04	8.16		
3	400	399	25.06	7.51		
4	399	401	25.01	7.88		
5	400	400	25.05	8.25		
6	401	399	25.03	7.29		

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 12/12/2020

Lab ID	:	CP-2021-09-08-08
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division , BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division , BBMP, Bangalore.
Project Name	:	Providing benches and drilling of borewells at burial ground in ward no-04 of satellite town sub division.
Agency	:	Sri G Venkategowda s/o Govindaraju, B3-11 2nd floor SFS 12th B main road Omega Hospital Yelahanka new town Bangalore- 560064.
Customer's Reference	:	EE(YNK.D)E.PMT.06/W.O/156/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-12-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	05/12/2020	12/12/2020	150.66 X 149.84 X 149.80	22574	8.670	290.5	12.9	12.9
2	PCC	M15	05/12/2020	12/12/2020	149.18 X 149.14 X 149.92	22249	9.049	284.6	12.8	
3	PCC	M15	05/12/2020	12/12/2020	149.97 X 150.67 X 150.21	22596	8.820	291.6	12.9	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-09-08-08 **Date: 02/01/2021**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division , BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division , BBMP, Bangalore.

Project Name : Providing benches and drilling of borewells at burial ground in ward no-04 of satellite town sub division.

Agency : Sri G Venkategowda s/o Govindaraju, B3-11 2nd floor SFS 12th B main road Omega Hospital Yelahanka new town Bangalore- 560064.

Customer's Reference : EE(YNK.D)E.PMT.06/W.O/156/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-12-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	05/12/2020	02/01/2021	151.79 X 149.11 X 150.33	22634	8.877	393.5	17.4	17.5
2	PCC	M15	05/12/2020	02/01/2021	149.96 X 150.29 X 149.03	22538	8.446	391.7	17.4	
3	PCC	M15	05/12/2020	02/01/2021	149.39 X 150.39 X 151.74	22466	8.306	400.9	17.8	

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Format No. CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2021-09-08-08** **Date: 23-11-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division , BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division , BBMP, Bangalore.
Project Name	:	Providing benches and drilling of borewells at burial ground in ward no-04 of satellite town sub division.
Agency	:	Sri.G Venkategowda s/o Govindaraju, B3-11 2nd floor SFS 12th B main road Omega Hospital Yelahanka new town Bangalore- 560064.
Customer's Reference	:	EE(YNK.D)E.PMT.06/W.O/156/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-11-20
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test	:	20-11-20
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-09-08-08** **Date: 23-11-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division , BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division , BBMP, Bangalore.
Project Name	:	Providing benches and drilling of borewells at burial ground in ward no-04 of satellite town sub division.
Agency	:	Sri.G Venkategowda s/o Govindaraju, B3-11 2nd floor SFS 12th B main road Omega Hospital Yelahanka new town Bangalore- 560064.
Customer Reference	:	EE(YNK.D)E.PMT.06/W.O/156/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-11-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	20-11-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	196	196	3.9	96.1	90-100
3	10 mm	2341	2537	50.7	49.3	25-55
4	4.75 mm	2289	4826	96.5	3.5	0-10
5	Pan	174	5000	100	0	-

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-೧೦೯

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-09-08-08** **Date: 23-11-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division , BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division , BBMP, Bangalore.
Project Name	:	Providing benches and drilling of borewells at burial ground in ward no-04 of satellite town sub division.
Agency	:	Sri G Venkategowda s/o Govindaraju, B3-11 2nd floor SFS 12th B main road Omega Hospital Yelahanka new town Bangalore- 560064.
Customer's Reference	:	EE(YNK D)E PMT 06/W O/156/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-11-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification . IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	21-11-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.71	–
2	Finess by Air permeablity method (m^2/kg,Min)	296.7	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

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ಘಟಕಸಂಖ್ಯ ಉಪನಗರ ಉಪವಿಭಾಗ.
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CIVIL Pro BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
****End of Report****

QC ABSTRACT

NAME OF WORK: Providing benches and drilling of borewells at burial ground in ward no-04 of satellite town sub division.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	PCC(M15)	Compressive Strength(7days and 28days)	1 set /1-5 cum	1.59	2	2
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
7	Chain Link Fencing	Average Thickness	One Test		1	1
		Dia of line wire	One Test		1	1
		Mesh size	One Test		1	1
		Nominal dia of mesh wire	One Test		1	1
		Bend Test	One Test		1	1
8	M.S Block Pipe	Yeild Stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
	M.S. Rectangular pole	Weight/Meter	One Test		1	1
		Yeild stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Bend Test	One Test		1	1

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